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DATE MAILED: 07/17/2008

## NOTICE OF ALLOWANCE AND FEE(S) DUE

26111 7590 97/17/2008 STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W. WASHINGTON. DC 20005

EXAMINER			
LIN, KENNY S			
ART UNIT	PAPER NUMBER		
2152	•		

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/973,871	10/11/2001	Fred A. Bunn	1875.0640001	7047

TITLE OF INVENTION: DYNAMIC DELTA ENCODING FOR CABLE MODEM HEADER SUPPRESSION

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/17/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NOT THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed off ions.	or transmitt ng the Paten nerwise in B	ing the ISSU t, advance or lock 1, by (a						ould be completed when correspondence address a rate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
26111 7590 07/1/7/2008 STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			.C.	I ber	Cer	tificate	of Mailing or Transı		
									(Depositor's name)
									(Signature)
					L				(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
09/973,871	10/11/2001			Fred A. Bunn			1875.0640001 7047		7047
TITLE OF INVENTION:									_
APPLN, TYPE	SMALL ENTITY	ISSUE F		PUBLICATION FEE D	UE	PREV. PAID ISSUI	3 FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1	440	\$300		\$0		\$1740	10/17/2008
EXAMI	NER	ART	UNIT	CLASS-SUBCLASS	╝				
LIN, KE	NNY S	21	52	709-236000					
"Fee Address" indi- PTO/SB/47; Rev 03-07 Number is required.  3. ASSIGNEE NAME AN	ondence address (or Cha 7122) attached. cation (or "Fee Address 2 or more recent) attack ND RESIDENCE DAT. css an assignee is ident in 37 CFR 3.11. Com	nge of Corre  Indication : acd. Use of a	spondence form Customer		p to nativ ingle or a attor I be p r typ re pa	3 registered paten ely, c firm (having as a gent) and the nam neys or agents. If printed. e) ttent. If an assign assignment.	memb es of up no nam	er a 2 0 to 0 to 0 to 3 0 to 0 to 0 to 0 to 0	cument has been filed for
Please check the approprida. The following fee(s) a  ☐ Issue Fee		categories (			Pleas	Individual 🚨 Co	orporati	on or other private gro	up entity
Publication Fee (No small entity discount permitted)				Payment by credit card. Form PTO-2038 is attached.					
Advance Order - #	of Copies		_	The Director is he overpayment, to I	reby Depos	authorized to char sit Account Numbe	ge the i	equired fee(s), any det (enclose a	iciency, or credit any extra copy of this form).
	SMALL ENTITY state	ıs. See 37 Cl		☐ b. Applicant is no	long	er claiming SMAI	L ENT	TTY status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if req ecords of the United Sta	uired) will netes Patent an	ot be accepte d Trademark	d from anyone other th Office.	an th	ne applicant; a regi	stered a	ttorney or agent; or th	e assignee or other party is
Authorized Signature						Date			
Typed or printed name						Registration N			
This collection of informs an application. Confidents submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	tion is required by 37 C iality is governed by 35 application form to the ons for reducing this bu rginia 22313-1450. DC 3-1450.	FR 1.311. T U.S.C. 122 USPTO. Ti rden, should O NOT SENI	he information and 37 CFR me will vary be sent to the presence of the presence	on is required to obtain 1.14. This collection i depending upon the i e Chief Information O COMPLETED FORM	or re s esti ndivi ffice S TC	etain a benefit by t imated to take 12 r idual case. Any co r, U.S. Patent and 7 THIS ADDRESS	he publ ninutes mment Traden 5. SENI	ic which is to file (and to complete, includin s on the amount of tin ark Office, U.S. Deps D TO: Commissioner I	by the USPTO to process g gathering, preparing, and se you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. 1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005		LIN, KI	ENNY S	
		ART UNIT	PAPER NUMBER	
			2152	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 477 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 477 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)	
09/973,871	BUNN ET AL.	
Examiner	Art Unit	
KENNIN & TINI	2152	

The MAILING DATE of this communication appears on the All claims being allowable, PROSECUTION ON THE MERITS IS (OR RENerewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPI	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initia				
<ol> <li>This communication is responsive to <u>5/5/2008</u>.</li> </ol>					
<ol> <li>The allowed claim(s) is/are <u>1-24</u>.</li> </ol>					
3.	ceived.  Seived in Application No  have been received in this national stage application from the				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this co noted below. Failure to timely comply will result in ABANDONMENT of t THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submitted. Not INFORMAL PATENT APPLICATION (PTO-152) which gives reason</li> </ol>					
5. CORRECTED DRAWINGS ( as "replacement sheets") must be subr					
(a) ☐ including changes required by the Notice of Draftsperson's Pate	ent Drawing Review ( PTO-948) attached				
1) hereto or 2) to Paper No./Mail Date					
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) sheach sheet. Replacement sheet(s) should be labeled as such in the header					
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of BIG attached Examiner's comment regarding REQUIREMENT FOR THE</li> </ol>					
Attachment(s)  1.   Notice of References Cited (PTO-892)  2.   Notice of Draftperson's Patent Drawing Review (PTO-948)  3.   Information Disclosure Statements (PTO/SB/08),	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper No/Mall Date 7. Examiner's Amendment/Comment 8. Examiner's Statement of Reasons for Allowance 9. Other				

/Kenny S Lin/ Primary Examiner, Art Unit 2152

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# DETAILED ACTION

Claims 1-24 are presented for examination.

# Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/5/2008 has been entered.

# Allowable Subject Matter

- Claims 1-24 are allowed.
- 4. The following is an examiner's statement of reasons for allowance: None of the prior art of the record explicitly teaches or fairly suggests all of the claimed limitations, especially the limitation and the use of dynamic delta encoding header suppression protocol which is clearly explained in the applicant's 5/5/2008 remark.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

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Art Unit: 2152

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kenny Lin whose telephone number is (571) 272-3968. The

examiner can normally be reached on 8 AM to 5 PM Tue.-Fri. and every other Monday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bunjob Jaroenchonwanit can be reached on (571) 272-3913. The fax phone number

for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Kenny S Lin/

Primary Examiner, Art Unit 2152

July 17, 2008